### Fig. 1A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 < V_{C2} \\ \hline \end{array}$$

### Fig. 1B

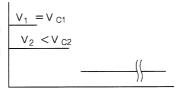
FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED

$$\begin{array}{c} V_1 = V_{C1} \\ V_2 < V_{C2} \end{array}$$

### Fig. 1C

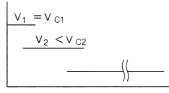
**FLUID** 

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



### Fig. 2A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



TIME

Fig. 2B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

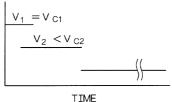
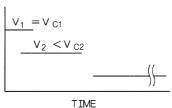


Fig. 2C



### Fig. 3A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 < V_{C2} \\ \hline \end{array}$$

### Fig. 3B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 < V_{C2} \\ \hline \end{array}$$

### Fig. 3C

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

### Fig. 4A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$V_{1} = V_{C1}$$

$$V_{2} < V_{C2}$$

$$TIME$$

#### Fig. 4B

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 < V_{C2} \\ \hline \end{array}$$

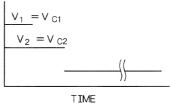
## Fig. 4C

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 < V_{C2} \\ \hline \end{array}$$

### Fig. 5A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



### Fig. 5B

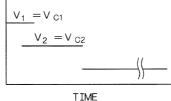
FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\frac{V_1}{V_2} = V_{C1}$$

$$\frac{V_2}{V_2} = V_{C2}$$

### Fig. 6A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



### Fig. 6B

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 = V_{C2} \\ \hline \end{array}$$

# Fig. 7A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 = V_{C2} \\ \hline \end{array}$$
TIME

### Fig. 7B

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 = V_{C2} \\ \hline \end{array}$$

## Fig. 8A

FIRST THERMOPLASTIC RESIN SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline V_2 = V_{C2} \\ \hline \end{array}$$

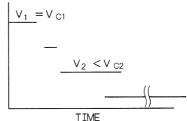
Fig. 8B

$$\begin{array}{c} V_1 = V_{C1} \\ \hline V_2 = V_{C2} \\ \hline \end{array}$$

### Fig. 9A

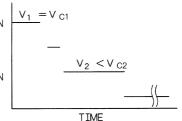
FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID



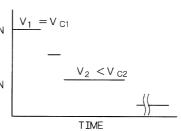
### Fig. 9B

FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



### Fig. 10A

FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



### Fig. 10B

FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline \\ - \\ \hline \\ V_2 < V_{C2} \\ \hline \\ \top IME \end{array}$$

### Fig. 11A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$\begin{array}{c|c} V_1 = V_{C1} \\ \hline \\ - \\ \hline \\ V_2 = V_{C2} \\ \hline \\ \hline \\ TIME \end{array}$$

### Fig. 11B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

TTMF

#### Fig. 11C

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID

$$V_1 = V_{C1}$$

$$V_2 = V_{C2}$$

#### Fig. 12A

 $V_1 = V_{C1}$ FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER  $V_2 < V_{C2}$ SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID TIME Fig. 12B  $V_1 = V_{C1}$ FIRST THERMOPLASTIC RESIN MOVEMENT OF PARTITION MEMBER  $V_2 < V_{C2}$ SECOND THERMOPLASTIC RESIN PRESSURIZED FLUID



FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN V<sub>1</sub> = V<sub>C1</sub>

--V<sub>2</sub> < V<sub>C2</sub>

--TIME

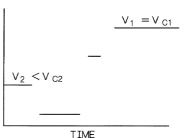
Fig. 13B

PRESSURIZED FLUID

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

PARTITION MEMBER
SECOND
THERMOPLASTIC RESIN
PRESSURIZED FLUID



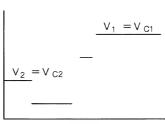
#### Fig. 14A

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID



TIME

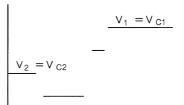
#### Fig. 14B

FIRST THERMOPLASTIC RESIN

MOVEMENT OF PARTITION MEMBER

SECOND THERMOPLASTIC RESIN

PRESSURIZED FLUID



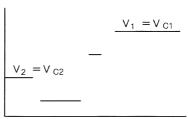
TIME

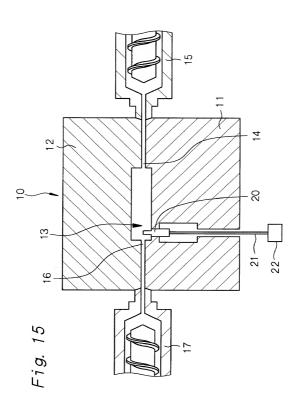
### Fig. 14C

FIRST THERMOPLASTIC RESIN MOVEMENT OF

PARTITION MEMBER SECOND

THERMOPLASTIC RESIN PRESSURIZED FLUID





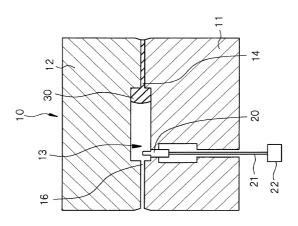


Fig. 16

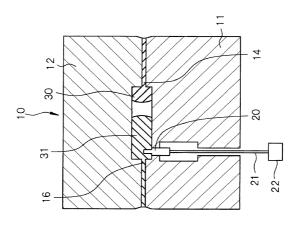


Fig. 17

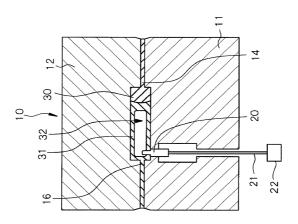
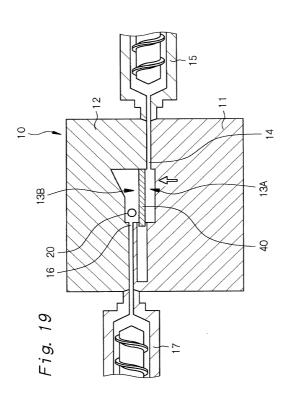


Fig. 18



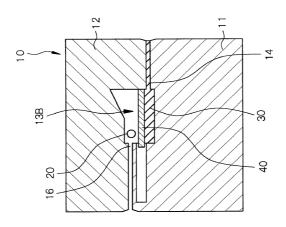


Fig. 20

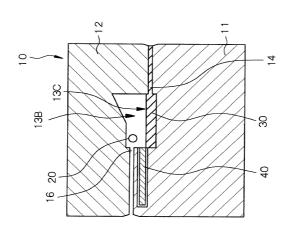


Fig. 21

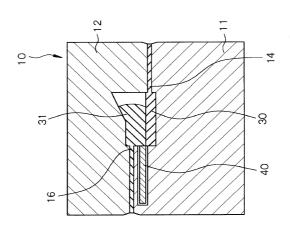


Fig. 22

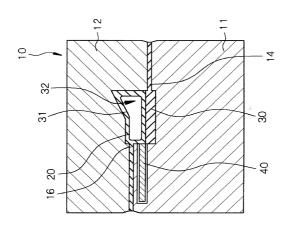


Fig. 23

16 31 10 40 13A

Fig. 24

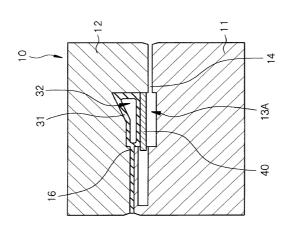


Fig. 25

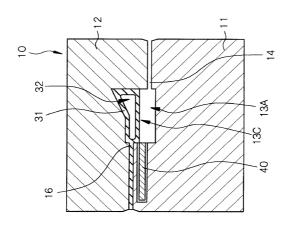


Fig. 26

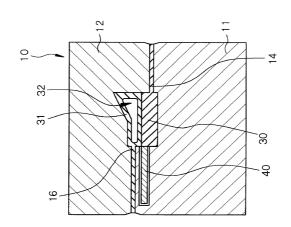


Fig. 27

Fig. 28

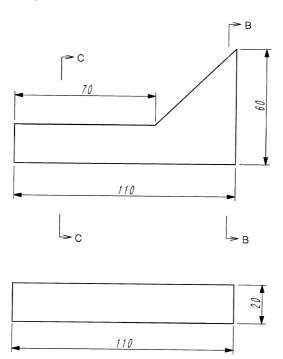
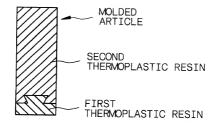


Fig. 29A



Fig. 29B



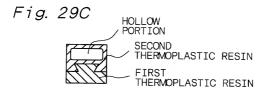


Fig. 29D



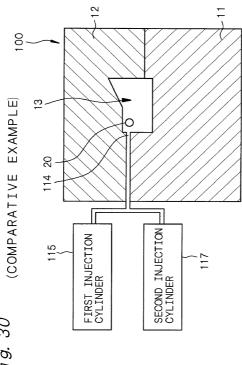


Fig. 30